

Well Intervention

StimTube™ / StimGun™ Stimulation Tools

StimGun™ and StimTube™ are oxidizer-based tools designed for near wellbore reservoir stimulation.

StimGun™ is a combination perforating gun/oxidizer sleeve that can be conveyed via slickline, electric line, coiled tubing or tubing conveyed perforating systems. A sleeve of oxidizer of predetermined length is placed over the perforating gun and deployed in the wellbore. The detonation of the perforating gun and the confinement created by wellbore hydrostatic pressure ignites the oxidizer resulting in the generation of large amounts of non-reactive gas at high pressures. Pressures can in fact be as high as 20,000 psi for 10 to 20 milli seconds, resulting in fracture generation and perforation breakdown.

StimTube™ is designed as a through tubing tool to treat existing perforations or zones. StimTube™ is a solid tube of oxidizer cast on to a stainless steel tube. It can be deployed to the wellbore via slickline, electric line, coiled tubing or tubing conveyed. It is ignited by length of detonation cord running the length of tool. As in StimGun™, the shock of the detonation cord and the confinement of wellbore pressures ignites the tool generating a large surge pressure at the perforations. Perforation breakdown and fracturing through near wellbore damage are the result.

These tools are field proven to reduce near wellbore damage, enhance hydraulic fracture operations, open plugged perforations and generally enhance production in new and old wells.

PulsFrac modelling

PulsFrac modelling is a service we offer which increases your chances of success. The effectiveness of the stimulation can be accurately predicted. A PulsFrac model can be completed before running the StimGun technology to determine whether the well is an ideal candidate for propellant stimulation or clean-up.

Applications

- Perforation breakdown
- Pre-hydraulic frac perforating
- Near wellbore Damage Clean-up
- Pre frac pack and gravel pack perforating
- Better completion efficiencies on TCP underbalance jobs

Benefits

- Reduces horse power requirements by 35% during hydraulic fracturing operations
- StimTube™ is a cost-effective way to remove near wellbore damage in older producing wells with existing perforations
- Improve frac pack operations by opening all the perforations in the interval
- StimGun™ enhances well productivity in older lower pressure reservoirs
- StimGun™ proven beneficial when combined with underbalanced TCP operation



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StimTube™ sizes available

Description	Sub OD	OAL	UN number	ECCN	Haz class
StimTube™ SYS 1-1/2" OD x 1ft	2.0"	14.5"	UN1489	EAR99	5.1
StimTube™ SYS 1-1/2" OD x 2ft	2.0"	26.5"	UN1489	EAR99	5.1
StimTube™ SYS 1-1/2" OD x 3ft	2.0"	38.5"	UN1489	EAR99	5.1
StimTube™ SYS 1-11/16" OD x 1ft	2.25"	14.5"	UN1489	EAR99	5.1
StimTube™ SYS 1-11/16" OD x 2ft	2.25"	26.5"	UN1489	EAR99	5.1
StimTube™ SYS 1-11/16" OD x 3ft	2.25"	38.5"	UN1489	EAR99	5.1
StimTube™ SYS 2" OD x 1ft	2.5"	14.5"	UN1489	EAR99	5.1
StimTube™ SYS 2" OD x 2ft	2.5"	26.5"	UN1489	EAR99	5.1
StimTube™ SYS 2" OD x 3ft	2.5"	38.5"	UN1489	EAR99	5.1
StimTube™ SYS 2-1/2" OD 2ft	3.0"	26.5"	UN1489	EAR99	5.1
StimTube™ SYS 2-1/2" OD 3ft	3.0"	38.5"	UN1489	EAR99	5.1
StimTube™ SYS 3" OD x 2ft	3.5"	26.5"	UN1490	EAR100	5.1
StimTube™ SYS 3" OD x 3ft	3.5"	38.5"	UN1489	EAR99	5.1

StimGun™ sleeve sizes available

Description	Use with gun size	Sleeve OAL	Fin Sub OD	UN number	ECCN	HAZ class
StimTube™ SYS 1-1/2" OD x 1ft	2.50"	36"	3.375"	UN1489	EAR99	5.1
StimTube™ SYS 1-1/2" OD x 2ft	2.75"	36"	3.63"	UN1489	EAR99	5.1
StimTube™ SYS 1-1/2" OD x 3ft	2.875"	36"	3.63"	UN1489	EAR99	5.1
StimTube™ SYS 1-11/16" OD x 1ft	3.125"	36"	4.0"	UN1489	EAR99	5.1
StimTube™ SYS 1-11/16" OD x 2ft	3.375"	36"	4.25"	UN1489	EAR99	5.1
StimTube™ SYS 1-11/16" OD x 3ft	3.50"	36"	4.25"	UN1489	EAR99	5.1
StimTube™ SYS 2" OD x 1ft	4.0"	36"	5.0"	UN1489	EAR99	5.1
StimTube™ SYS 2" OD x 2ft	4.50"	36"	5.5"	UN1489	EAR99	5.1
StimTube™ SYS 2" OD x 3ft	4.625"	36"	5.5"	UN1489	EAR99	5.1
StimTube™ SYS 2-1/2" OD 2ft	5.0"	36"	6.06"	UN1489	EAR99	5.1
StimTube™ SYS 2-1/2" OD 3ft	5.125"	36"	6.06"	UN1489	EAR99	5.1
StimTube™ SYS 3" OD x 2ft	7.0"	36"	8.16"	UN1489	EAR99	5.1

Note: Other sizes, configurations and pressure ratings are available to meet most applications, for more information contact your local Expro representative or email wellintervention@exprogroup.com